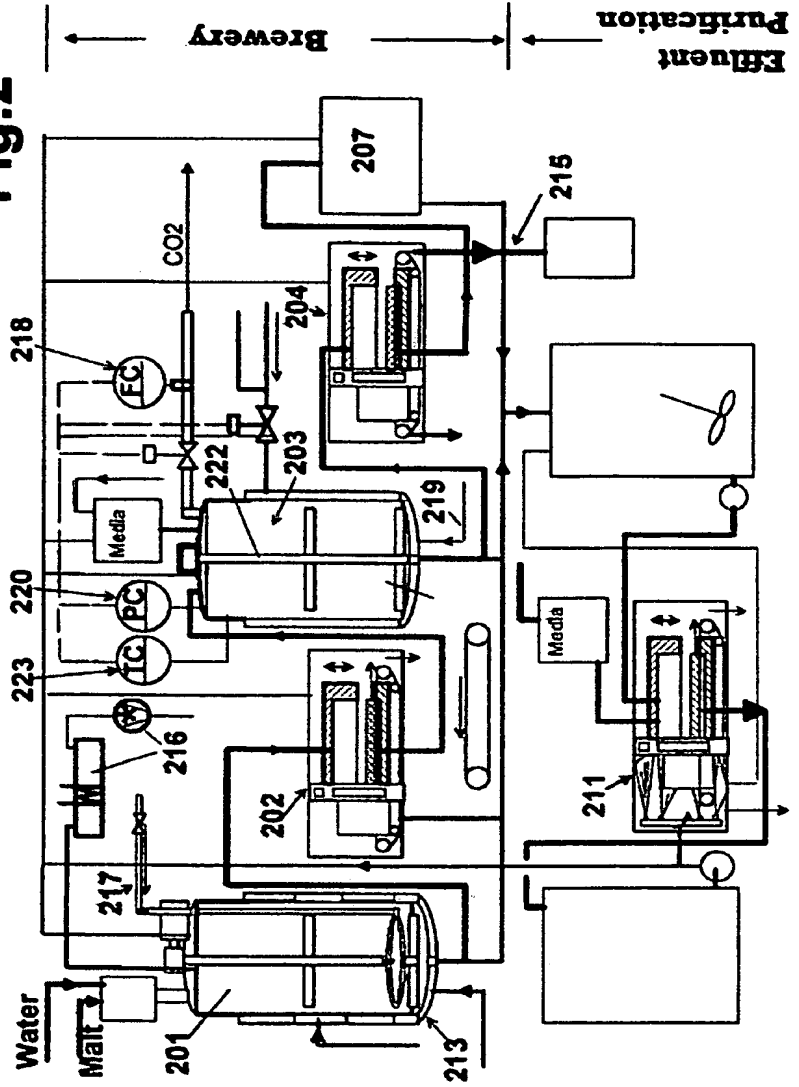


Fig.2





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## Fig.3

### Key to Fig.1

#### Conventional beer brewing process

- 101 mash tun
- 102 mash kettle
- 103 lauter tun
- 104 wort kettle
- 105 hops strainer
- 106 wort tank
- 107 centrifuge
- 108 cooler
- 109 fermenter
- 110 centrifuge
- 111 cooler
- 112 conditioner
- 113 centrifuge
- 114 filtration (sterile)
- 115 pasteurization
- 116 yeast filter
- 117 tank bottoms filter

### Key to Fig.2

#### process of the invention

- 201 mash kettle
  - 202 mash filter
  - 203 fermenter
  - 204 beer filter
  - 207 bottling
  - 211 effluent filter
  - 213 mash kettle heat transfer jacket
  - 215 yeast cake discharge chute
  - 216 vacuum plant
  - 217 steam input
  - 218 CO<sub>2</sub> flow controller
  - 219 heating/cooling media nozzle
  - 220 pressure controller
  - 222 fermenter stirrer
  - 223 temperature controller
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